Briefly displays the channel number, or "L1" or "L2"

Briefly displays the recording speed when SPEED is

when a channel or line input is selected.

Lights up when Hi-Fi audio is

monitored in Playback Mode.

Connector (L/R)

This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the uilding, as close to the point of cable entry as practical.

Panasonic Consumer Electronics Company. **Division of Matsushita Electric Corporation of America** One Panasonic Way Secaucus, New Jersey 07094

Panasonic Sales Company ("PSC"), Division of Matsushita Electric of Puerto Rico, Inc.

Ave. 65 de Infantería. Km. 9.5 San Gabriel Industrial Park. Carolina, Puerto Rico 00985

Printed in Indonesia LSQT0534A

Spanish Quick Use Guide/ Guía para rápida consulta Spanish Quick Use Guide/ Guía para rápida consulta

CONEXIONES/CONFIGURACIÓN INICIAL (READY TO PLAY)

Realice la conexión de la antena o TV por cable antes de enchufar el cable de CA. La videograbadora iniciará automáticamente la fijación de los canales y del reloj al enchufar el cable de CA. PRECAUCION -

Si se sobre ajusta "NUT TYPE" el cable coaxial RF podria dañar las erminales de conexion. Aiusta ligeramente utiliza solo los dedos.

CONEXIONES Para Ant/Cable → VCR → TV

(1) Conecte el cable de la antena al

terminal IN FROM ANT del VCR. (2) Conecte el terminal OUT TO TV del VCR a la entrada de la antena VHF/UHF del TV con el cable RF incuido.

Para Sistema Digital de Satelite (DSS)/ Convertidor de cable → VCR → TV (1) Conecte la salida de convertidor de

(2) Conecte el terminal OUT TO TV del VCR a la entrada de la antena VHF/ UHF del TV con el cable RF incluido.

cable al terminal IN FROM ANT.

4 SELECCION DE CONEXION en el

menu desplegado en pantalla.

Presione **▲▼** para obtener las

conexiones "VCR ► TV", o

seleccionar.

cable→VCR→TV.)

■ (Si la conexion es ANT/ CABLE->VCR->TV.)

(Si la conexion es DSS/Convertidor de

conexion "CABLE/DSS ▶ VCR ▶ TV"

Presione **▲**▼ para obtener la

y presione ▶ para seleccionar.

Confirme el canal de salida de su

DSS presione **▲▼** que permitiran

que su convertidor o DSS.

Presione ▶ para seleccion.

Si aparece en la pantalla "FIJACION

VCR CLOCK CHANNEL

FIJACION AUTOMATICA DEL RELOJ ES INCOMPLETO

POR FAVOR FIJE EL RELOJ CON LA TECLA ACTION

convertidor de cable o receptor de

selecionar el mismo canal de salida

"VCR ► CABLE/DSS ► TV", y presione

CONFIGURACIÓN INICIAL

1 Encienda el TV y cambie al canal 3.

2 Enchufe el cable de CA. La videograbadora se encenderá e iniciará las fijaciones de los canales y • Si no aparece la pantalla de abajo,

compruebe la conexión del VCR-TV y si el canal del TV está a 3, intennte cambiando al canal 4. · Para cambiar el canal de salida del VCR,

consulte las instrucciones de "Canal de salida del VCR" en la página 12 de las operaciones avanzadas

Enchufe el cable de CA. CANCELAR: STOP

4

FIJACION AUTOMATICA

DEL RELOJ EN PROCESO

/ | \

CANCELAR: STOP

Si está usanndo un convertidor de TV por cable v en su area hav un canal de Public Broadcast Station (PBS), aiuste su convertidor al canal PBS de su area. Si está usando un receptor DSS, este debe estar apagado.

3 Las fijaciones se realizan AUTOMATICA DEL RELOJ ES automáticamente. Cuando termina llas INCOMPLETO", Ajuste el reloj como se fijaciones, aparecerá la siguiente pantalla. describe a continuación.

9/29/2002 DOM 2:20PM CANAL FIJADO : CA 10 FIJACION AUTOMATICA COMPLETO

AJUSTE MANUAL DEL RELOJ

Si la colocacion de tiempo fue incompleta

a Presione la tecla ACTION en el control remoto para visualizar la pantalla del menú RELOJ.



D Presione ▲ ▼ para seleccionar el mes y ▶ para ajustar. De la misma forma. seleccione y ajuste la fecha, año, hora y DST (Hora de Verano).

VCR RELOJ CANAL 9/29/2002 DOM 2:20PM FIJACION ES COMPLETO

permanece grabando) Presione VCR/TV (la indicación "VCR" se encenderá en la vizualización multi-función PROGRAMACIÓN FÁCIL PARA LA GRABACIÓN CON **TEMPORIZADOR**

ELEGIR :▲ ▼ ◀ ►

1) Presione PROG/VCR+ 2) Presione ▼ para visualizar la pantalla de Programación.

2 1) Para ajustar la FECHA de grabación, presione ▲▼ para seleccionar: 1-31 = una vez, o DIARIO = a la misma hora de lunes a viernes,

misma hora cada ELEGIR : ▲ ▼ FIJAR: ► TERMINAR: PROG Orden para elegir

Fecha de hoy-

para aiustar. Ejemplo

▲/▼ Orden para elegir

o SEMANA = a la

semana y **presione** ►

2) Para los ajustar siguientes. presione ▲▼ para seleccionar v presione ▶ para ajustar los tiempos de INICIO/PARADA, CANAL, o entrada de LINEA, y velocidad del cassette (SP, LP, SLP). Presione PROG/VCR+ para finalizar el programa.

Presione ▲▼ para seleccionar un número que no está usando para ingresar mas programas y presione ▶ para ajustar. Luego repita el paso 2. Presione nuevamente



⚠ Presione POWER off para ajustar el temporizador. (Se ilumina "TIMER" en el panel delantero)

REVISIÓN, REEMPLAZO O **BORRADO DE PROGRAMACIONES** (no se puede efectuar durante la grabación

1	(VC	R Plus+	PROG.	▶LIS	STA
	FE	INIC	PARADA		VEL
	7	9:00A	12:00A	08	SP
	18	10:00P	12:00P	02	SP
	10	8:00P	9:00P	10	SP
	SU	9:00P	10:00P	L1	LP ▼
			N ▼ ◀ ► PROG		

) Presione PROG/VCR+ 2) Presione ◀ ▶ para seleccionar la linea.

8:00P 9:00P 10 SP 9:00P 10:00P L1 LE deseado. CANCELAR: ADD/DLT ELEGIR : ▲ ▼ FIJAR: ►

Presione ▲▼ para

Presione ▲▼ para

Presione ▲▼ para

Presione ▲▼ para

Seleccionar programa

C Para reemplazar programa...



desplegar menu.

2) Repita paso 2 para (ver arriba) introduci el nuevo programa

Para cancelar programas.. Presione ADD/DLT

d Presione PROG/VCR+ Para terminar programacion.

PARA CANCELAR LA GRABACIÓN **CON TEMPORIZADOR** (la grabación está teniendo lugar)

Presione POWER v luego STOP dentro de los 10 segundos para cancelar la grabación con temporizador (el indicador TIMER se apagará en la Pantalla de Multi-Función)

Spanish Quick Use Guide/ Guía para rápida consulta

ANTES DE AL SERVICIO SOPORTE TÉCNICO

Verifique los siguientes puntos una y otra ves si esta teniendo problemas con su VCR.

CORRECCIÓN ALIMENTACIÓN DE AC Revise que el cordon de alimentación de AC este correctamen La unidad no enciende... conectado a la toma de pared. Presione el botón "POWER" para el encendido de la unidad. Verifique que la fuente de alimantación está activada GRABACIÓN Y REPRODUCCIÓN CORRECCIÓN

(REC / PLAY) No se pueden grabar programas de TV | • Revise las conexiones entre VCR, antena externa o cable y TV Verifique la selección de conexiones (BO p. 4, AO p. 3) Verifique que su sistema de antenna (Cable o TV) estér correctamente seleccionados. Vea "Channels" (AO p. 12 Asegúrese que la pestaña en el cassette de grabación esté intacta (BO p.3) Compruebe que el reloj ha sido ajustado a la hora y fecha actual No se puede efectuar grabación con Asegúrese de que la caja de Cable/DSS (si se utiliza) se emporizador. deia encendido v está sintonizado al canal a grabar. Ajuste las horas de comienzo y deteción de grabación correctamente. (BO p. 6) Asegúrese de que ha apagado el VCR antes de la grabación. La grabación con temporizador quizás no pueda realizarse o continuarse si se produiera una interrupción de corriente antes o durante una grabación con temporizador, incluso después de

(BO : Haga referencia en la instruciones de funcionamiento [Operaciones Básicas])

(AO : Haga referecncia el la instruciones de funcionamiento [Operaciones Avanzadas]

restablecido el fluido eléctrico Seleccióne el canal 3 o 4 en el televisor, de modo que o hay imagen de reproducción, o corresponda con el canal de salida del videograbador (3 o 4) la imagen de reproducción tiene (BO p. 4), o seleccione LINE. ruidos o contiene ravas... Aiuste el selector VCB/TV a "VCB" Ajuste el control TRACKING en una de las dos direcciones. (BO p. 3 Pruebe a realizar la limpieza de cabezales. (BO p. 3)

En la reproducción de efectos Ponga el Control de Bloqueo Vertical del televisor en "MANUA especiales, la imagen puede contene v luego realice el ajuste. algunos saltos verticales cuando se utiliza un televisor con Control de Bloqueo Vertical Automático...

Asegúrese de que el aparato está encendido. lo se puede controlar el VCR.. Asegúrese de que el BLOQUEO DEL VCR esté ajustado a INACTIVO (AO pag.10) Asegúrese de que no está funcionando una grabación con

CONTROL REMOTO CORRECCIÓN NO funciona el control remoto... Asegúrese de que el aparato está encendido. Asegúrese de que el control remoto está en le modo de VCR. Apunte el control remoto derectamente al sensor remoto del

VCR. (BO p. 7) Evite que ningún objeto interrumpa la señal del control remoto Revise las pilas del control remoto (BO p.3) Asegúrese de que el BLOQUEO DEL VCR esté ajustado a INACTIVO (AO pag.10) Si ei sensor remoto recive directamente la lus del fluorescente o luz solar puede causar interferencia con la señal del control remoto Verifique las conexiones entre VCR, cable o antena v TV. Presione el botón VCR para el modo de "VCR". (AO p. 2)

"PROG/VCR+" no responden. Revise las baterias del control remoto. (BO p. 3) Asegúrese que la TV este encendida No se pueden ver los programas en Asegúrese que la TV esté conectado a la salida de la VCR el televisor Verifique conexiones entre VCR, cable o antena y TV. Ajuste el selector VCR/TV a "TV". (BO p. 5)

Asegúrese que la apropiada señal fue seleccionada Inserte el cassette con el lado de la ventana hacia arriba y la No se puede introducir la cassette pestaña de grabación frente a usted. de vídeo. Verifique que no tenga ningún cassette dentro del aparato. Inserte o conecte completamente el cable de alimentación de No se puede extraer la cassette de AC a la toma de pared Asegúrese que la pestaña de grabación del cassette este La cassette de vídeo es expulsada al intacta. (BO p. 3) dar comienzo a una grabación o al

desactivar la alimentación para la grabación con teporizador.. Para activar rápidamente el mecanismo de reproducción, el En el modo de Detención, el motor cilindro sique rotando durannte 3 minutos. Esto disminuve el (CILINDRO) sigue girando... tiempo de respuesta desde la parada hasta la reroducción hasta la el modo de búsqueda en rebobinado

Si no puede resolver su problema, por favor comunicarse al Centro de llamadas del Cliente para asistencia del producto al 1-800-211-PANA(7262). Para localizar un centro de servicios autorizado, llame sin costo al 1-800-211-PANA(7262) o envie un correo a : consumerproducts@panasonic.com

Limited Warranty

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America, One Panasonic Way Secaucus, New Jersey 07094

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. AVE. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

> PANASONIC VHS VCR **Limited Warranty**

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair or replace this product with new or refurbished parts or equivalent product, free of charge in the USA or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of the original purchase):

PARTS - ONE (1) YEAR LABOR – NINETÝ (90) DAYS

> Batteries - Non-rechargeable batteries are not warranted Tape (if included) – New video tape in exchange for defective video tape for five (5) days.

> For assistance in the continental U.S.A. in obtaining repairs please ship the product to **Panasonic Services Company** Customer Servicenter Suite B

4900 George McVay Drive. McAllen, TX 78503

In Puerto Rico contact the Panasonic Sales Company. Tel. (787)750-4300

Fax. (787)768-2910

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone number where you can be reached. IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD THE PURCHASER WILL

BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED **WITHOUT SUCH PROOF OF PURCHASE**

Also, the purchaser will be responsible for shipping the unit to the above address. This warranty is extended only to the original purchaser.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use. The warranty does not cover damage which occurs in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, improper insertion of consumables, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, commercial use such as hotel, office, restaurant, or other business or rental use of the product or service by anyone other than a PANASONIC VHS VCR authorized repair facility, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY, ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If you have a problem with this product that is not handled to your satisfaction, then write to the Consumer Affairs Department at the Company address indicated on this page.

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact: 1-800-211-PANA (7262), Monday-Friday 9 am-9 pm Saturday-Sunday 9 am-7 pm,

Web Site: http://www.panasonic.com You can purchase parts, accessories or locate your earest servicenter by visiting our Web Site.

Accessory Purchases:

1-800-332-5368 (Customer Orders Only) Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032 (6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST)

Panasonic



Omnivision WAS

Video Cassette Recorder **Operating Instructions**

(Basic Operations) For advanced operations, see the separate "Advanced Operations" instruction book.

Model No. PV-V4602

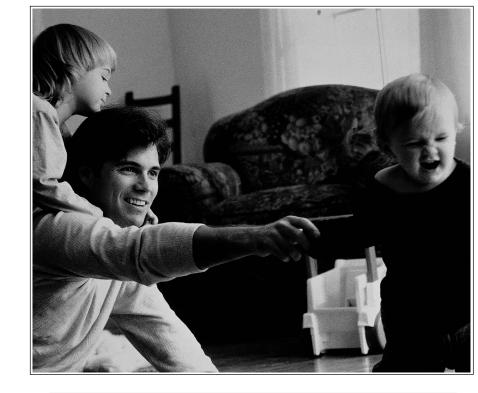


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VCR Plus+, ALLSET and PlusCode are trademarks of Gemstar Development Corporation. The VCR Plus+ system is manufactured under license from Gemstar Development Corporation



As an ENERGY STAR® Partner, Matsushita Electric Corporation of America has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.

Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual.

Spanish Quick Use Guide is included. (Guía para rápida consulta en español está incluida.)

LSQT0534A

or assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

al paso 4 anterior.

SP] aprox. 7X ↔ aprox. 3X Si la imágen se interrumpe con la velocidad de 21x. 9x o 7x. cambie la velocidad a 9x. 7x o 3x ■ Presione PAUSE/SLOW para imagen

Fija (Congelada). Presione PLAY para liberar. ■ Presione PAUSE/SLOW en el modo de Imagen fija para imágenes cuadro a cuadro. Presione PLAY para liberar.

OPERACIONES BÁSICAS PARA

• la alimentación del VCR se activa.

Función se ilumina "VCR".

En la Pantalla de Visualización Multi

Presione PLAY para reproducir el

• Si el cassette no tiene lengüeta de

reproducción automáticamente.

Presione PLAY para liberar.

cambia la velocidad como sique:

aprox. 9X ↔ aprox. 7X

[SLP] aprox. 21X ↔ aprox. 9X

prevención de grabación (p. 3), se inicia la

Detalles especiales durante la grabación

■ Presione FF o REW para búsqueda de

Luego de que la búsqueda se ha iniciado,

cada vez que presione FF o REW se

escenas hacia delante/ hacia atrás.

LA REPRODUCCIÓN

1 Inserte una cassette,

■ Mantenga pulsado PAUSE/SLOW en el modo de imagen fija para imágenes en cámara lenta. Presione PLAY para liberar.

3 Presione STOP para detener el ■ Presione REW o FF en el modo de parada para rebobinado/avance

rápido del cassette. ■ Presione EJECT en el control remoto, o STOP/EJECT en el VCR para expulsar el cassette.

OPERACIONES BÁSICAS PARA

LA GRABACIÓN Inserte el cassette con lengüeta de protección de grabación (p. 3). La alimentación del VCR se activa. En la pantalla Multi Función se ilumina

2 Presione CH ▲▼, o las teclas de **números** para seleccionar el canal.

3 Presione SPEED para seleccionar la velocidad de grabación (p. 3) SP = Reproducción estándar,

 LP = Larga duración, • SLP = Superlarga duración.

4 Presione REC para comenzar a grabar. · Para eliminar escenas indeseadas, presione PAUSE/SLOW para pausar, y al presionar nuevamente se reanuda la grabación.

5 Presione STOP para detener la grabación.

■ Grabación de un toque. Presione RFC repetidamente para ajustar la duración de la grabación como sigue: como sique: 30 min. → 1 hr → 1:30hr → 2:00 → 3:00 → 4:00 → Salida. La VCR se apagara automáticamente en en

intervalo seleccionado de tiempo. Ver un canal y grabar otro. Presione VCR/TV. (La indicación VCR se apagara en la

visualización de Multi-Función") ➤ Seleccione canales de TV (Mientras Seleccione canales con VCR.

➤ Seleccione canales en su VCR.

Los botones "ACTION" v/o

- 11 -

- 12 -

(Visa, MasterCard, Discover Card, American Express, Check)

- 10 -

perate only from a power source indicated on

the unit or in this manual. If necessary, have

oducts Dealer verify the power source in your POLARIZED OR GROUNDING PLUG As a safety feature, this Video product comes

POWER SOURCE CAUTION

with either a polarized power cord plug (one blade is wider than the other), or a three-wire grounding type plug. POLARIZED PLUG CAUTION: This plug will only fit into an outlet one way. If you

cannot fully insert the plug, try reversing it. If it still will not fit, have an electrician install the proper wal outlet. Do not defeat the safety feature by tampering with the plug.

GROUNDING PLUG CAUTION: This plug will only fit into a three-hole grounding outlet If necessary have an electrician install the proper outlet. Do not defeat the safety feature by ampering with the plug. POWER CORD

Make sure power cords are routed so that they are not likely to have anything rest on them, ro over them, or be in the way of walking traffic. If an extension cord is used, make sure it also has either a polarized or grounded plug and that the cords can be securely connected. Fraved cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be eplaced by a qualified service technician.

Verloaded outlets and extension cords are fire hazards and should be avoided

DO NOT BLOCK VENTILATION HOLES generated during operation. If they are blocked neat build-up inside the unit can cause failures that may result in a fire hazard or heat damag to cassettes. For protection, follow these rules Never cover ventilation slots or the unit while in use, or operate the unit when placed on a bed, sofa, rug, or other soft surface.

b. Avoid built-in installation, such as a book

case or rack, unless proper ventilation is AVOID EXTREMELY HOT LOCATIONS OF

Do not place the unit over or near any kind of neater or radiator, in direct sunlight, inside a closed vehicle, etc.. Do not move the unit suddenly between areas of extreme temperature variation. If the unit is suddenly moved from a cold place to a warm place, moisture may ondense in the unit and on the tane TO AVOID PERSONAL INJURY

Do not place unsecured equipment on a sloping • Do not place this unit on an

support that is not firm, level and adequately strong. The unit could fall causing serie njury to a child or adult and damage to the unit. An appliance and cart combination should be

and uneven surfaces may cause the appliance Carefully follow all operating instructions and use the manufacturer's recomi

accessories when operating this unit or connecting it to any other equipment.

Safety Precautions video unit is in safe operating condition. Warning: To prevent fire or shock hazard, do not expose this equipment to rain or

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert. Avertissement: Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à une humidité excessive

FCC Warning: Any unauthorized changes or modifications to this equipment would void the

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.



user's authority to operate.

voltage within the unit may have sufficient magnitude to cause electric shock. Therefore it is dangerous to make any kind of contact with any inside part of this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included Therefore, it should be read carefully in order

POWER SERVICE GROUN ELECTRODE SYSTEM lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, Model No. _____ connection to grounding electrodes and requirements for the

KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS utside antenna system should be located well away rom power lines, electric light or power circuits and where i will never come into contact with these power sources if it extreme care should be taken to avoid touching power lines. circuits or other power sources as this could be fatal. Because of the hazards involved, antenna installation should

SAFE ANTENNA AND CABLE CONNECTION

ection 810 of the National NEC - NATIONAL CODE

charges and voltage surges.

lectrical Code, ANSI/NFPA

70 (in Canada, part 1 of the

spect to proper grounding

provides information with

of the mast and supporting

structure arounding of the

If an outside antenna or cable system is connected to the

so as to provide some protection against built up static

equipment, be sure the antenna or cable system is grounded

the antenna and cable system. WHEN THE UNIT IS PLUGGED IN

> ectrical shorts caused by liquid contact inside Never drop or push any object through openings in the

contact can cause electric shock or fire hazard. Avoid placing the unit directly above or below your TV set as this may cause electrical interference. Keep all nagnets away from electronic equipment. USING ACCESSORIES

e only accessories recommended by the manufacturer to

avoid risk of fire, shock, or other hazards. CLEANING THE UNIT Unplug the unit, Then, use a clean, dry, chemically eated cloth to gently remove dust or debris. DO NOT

USE cleaning fluids, aerosols, or forced air that could overspray, or seep into the unit and cause electrical shock. Any ubstance such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas nay adversely affect internal parts.

f, after carefully following the detailed operating instructio this Video product does not operate properly, do not attempt open or remove covers, or make any adjust

2 IF REPLACEMENT PARTS ARE REQUIRED by the manufacturer, or those having the same safety naracteristics as the original parts. The use of unauthorize obstitutes may result in fire, electric shock, or other

technician to conduct a thorough safety check as described

on your new purchase! With proper use, this dependable product will provide years of enjoyment. Please fill in the information below. (Serial number is on tag on back of VCR.)

• Date of Purchase Dealer Purchased From _

 Dealer Address Dealer Phone No.

PV-V4602

Serial No.

800

1-800-332-5368

Loading the Batteries

☐ Battery replacement caution

Do not mix old and new batteries.

· Do not mix alkaline with manganese batteries.

Prevent Accidental Tape Erasure

Break off the tab to | To record again

prevent recording.

☐ Batteries 2 "AA" ☐ Remote Control LSSQ0300 EJECT JOHT ☐ RF Coaxial V.JAS0196

0 0 0 0 0

DURING AN ELECTRICAL STORM During a lightning storm, whether indoors or outdoors, or before leaving the unit unused for extended periods of time nnect all equipment from the power source as well as

IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR

STRONG IMPACT, unplug the unit and have it inspected by

first to the INSTALLATION section of these safeguards.

1 KEEP THIS VIDEO UNIT AWAY FROM WATER OR

Never expose the unit to rain or water. DO NO OPERATE if liquid has been spilled into the unit. Immediately unplug the unit, and have it inspected by a service technician. Fire and shock hazards can result from

unit. Some internal parts carry hazardous voltages and

DO NOT SERVICE THIS PRODUCT YOURSELF

described in the manual. Unplug the unit and contact a

3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY

After any service or repairs to the unit, request the service

Record/Playback Time Only use tapes with the **VHS** mark in this unit.

Tape Speed	Type of Video Cassette			
Setting	T60	T120	T160	
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes	
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes	
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours	

Before Using

Congratulations

Head Cleaning Old or damaged tapes may clog heads. Video Head Clog Sensor

• Use "dry" type head

cleaning cassette only

Screen-right appears during play VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HE f clogging is detected. To remove screen, press PLAY.

PLEASE INSERT HEAL CLEANING CASSETTE OR REFER TO MANUAL

For ANT./Cable → VCR → TV (Part No. NV-TCL30PT is recommended.) Follow cleaning tape instructions carefully.

Connecting

Connect cable from Antenna/Cable to

② Connect VCR's OUT TO TV lack to

For DSS/Cable Box → VCR → TV

TV's ANT. IN jack with included RF

1) Connect your cable box's OUT lack

2 Connect VCR's OUT TO TV jack to

Doing Initial Setup (Ready to Play)

1 Turn TV on and tune to channel 3.

2 Plug VCR Power Cord into AC wall

To change VCR's output channel.

If screen below does not appear, check

VCR - TV connection and, if TV is tuned

to channel 3, try switching it to channel 4.

please refer to "VCR's Output Channel"

in Advanced Operations book (p. 12).

Plugging the AC Power Plug into an AC outlet

CH AUTO SET PROCEEDING

AUTO CLOCK SET

PROCEEDING

If you use a cable box, turn it on and set it to

channel in your time zone. If you use DSS

the Public Broadcasting Station (PBS)

3 Settings are made automatically.

receiver, it must be turned off.

CANCEL : STOP

outlet. VCR comes on and auto

channel and clock set starts.

to the VCR's IN FROM ANT. jack with

TV's ANT. IN lack with included RF

VCR's IN FROM ANT. iack.

Cable accessory.

Cable accessory

an RF cable

Excessive use of tape can shorten head life. Built-in Head Cleaner

clean video head helps produce a clear picture. So, we have equipped your VCR with a uilt-in, non-chemical head cleaning system that helps prevent clogging of the video heads. Cleaning is performed each time you load or unload a video cassette.

This feature is preventative only. If your video heads are seriously clogged, consider the use of a chemical non-abrasive head cleaning kit or take your VCR to a Service Center.

Cleaning the VCR

Use soft, dry cloth or dusting attachment of a vacuum to remove dust from all cabinet vent holes. You may moisten cloth with nonabrasive, antistatic cleaner/ polisher.

Alcohol and various solvents could damage finish.

Specifications To order accessories, call toll free Power Source: 120 V AC, 60 Hz

> Approx. 23 W Audio Track:

Power Consumption: Power On

Power Off Annrox 30 W EIA Standard NTSC color 4 rotarv heads helical 1 track (Normal)

Hi-Fi Audio Sound Broadcast Channels: VHF 2 ~ 13, UHF 14 ~ 69 CABLE Channels: Midband A ~ I (14 ~ 22)

Superband J ~ W (23 ~ 36) Hyperband AA ~ EEE Lowband A-5 ~ A-1 (95 ~ 99)

Special CABLE channel 5A Ùltraband 65 ~ 94, 100 ~ 125 5 °C ~ 40 °C (41 °F ~ 104 °F)

Operating Temperature: Operating Humidity: 10 % ~ 75 %

2.7 kg (6.0 lbs) 430 (W) x 98 (H) x 242 (D) mm 16-15/16" (W) x 3-7/8" (H) x 9-9/16" (D) inch

Note: Designs and specifications are subject to change without notice.

Features for a Quality Picture

Digital Auto Picture Automatically controls the video output signal for less noise depending on the tape condition. Cover the hole with cellophane

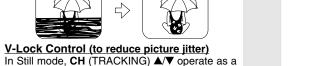
V-Lock control.

Digital Auto Tracking Continuously analyzes the signal and adjusts for optimum picture quality.

Manual Tracking Control to reduce picture noise Use during Playback and Slow Motion mode to reduce picture noise.

Press CH (TRACKING) ▲/▼ on the remote control or on the VCR until the picture clears up. To return to Auto Tracking, press POWER off, then on again a few seconds later





SELECT MONTH SELECT : ▲ ▼ SET: ► EXIT : ACTION

Connections / Initial Setup (Ready to Play)

OUT TO TV

Over tightening "Nut type" RF coaxial cables

may damage jacks. Finger tighten only.

4 SELECT CONNECTION screen is

press ▶ to set.

■ (If ANT./Cable → VCR → TV connection,)

press ▲▼* to select "VCR ▶ TV". or

"VCR ▶ CABLE/DSS BOX ▶ TV". and

/CR▶CABLE/DSS BOX▶T

(If DSS/Cable Box → VCR → TV connection,)

VCR►TV" and press ► to set.

press ▲▼ to select "CABLE/DSS BOX▶

VCR CLOCK CHANNEL SELECT CONNECTION

CRINTV
ABLE/DSS BOXINCRINTV

Please make all cable or antenna connections before plugging into the AC outlet. Playback a Tape Plugging the VCR Power Cord into an AC wall outlet starts auto channel and clock set.

l Insert a tape. Loose or peeling labels may cause tape jam.

2 Press PLAY to play tape. • If tape has no rec. tab (p. 3), auto play begins. **Special Features During Play**

Forward/Reverse Scene Search

Press FF or REW. Press PLAY to release. After search has begun, each additional press of **FF** or **REW** changes speed as shown below. [SLP]: Approx. $21X \leftrightarrow Approx. 9X$

: Approx. 9X ↔ Approx. 7X : Approx. $7X \leftrightarrow Approx. 3X$ If at 21X, 9X, or 7X speed the picture is interrupted, change speed to 9X, 7X, or 3X.

Picture interruption may occur with some TVs.

 FF and RFW search speed may vary depending on current tape position. Still (Freeze) Picture

Press PLAY to release. Frame by Frame Picture

→ Press PAUSE/SLOW.

→ Press PAUSE/SLOW in Still mode. Press PLAY to release.

■ Slow Motion Picture

→ Hold down PAUSE/SLOW in Still mode. Press PLAY to release.

• These features work best in SP or SLP mode. · The sound will be muted.

• To reduce picture noise, see "Manual Tracking Control" on p. 3. and the video heads.

Verify the output channel of your cable box or DSS receiver and press **▲▼** to select and **▶** to enter that channel number

> CABLE/DSS BOX VCR TV SELECT : ▲ ▼ SET: ► EXIT : ACTION

When setup is done, this screen If "AUTO CLOCK SET IS INCOMPLETE"

appears, manually set clock. See below. VCR CLOCK CHANNEL

AUTO CLOCK SET IS INCOMPLETE

Manual Clock Set If Auto Clock Set was incomplete

VCR CLOCK CHANNEL

DPress ▲ ▼ to select the month and ▶ to set. In the same manner, select and set the date, year, time, and DST (daylight saving time). VCB CLOCK CHANNEL

9/29/2002 SUN 2:20PM

step 4 above.

Playback / Record on a Tape

Record on a Tape

3 Press SPEED to select record speed (p. 3). 4 Press REC

then the other 2 digits.

Operations" book.

to start recording. • To edit, press PAUSE/SLOW to pause, and again to resume recording.

For "LINE" input, see p. 9 of "Advanced

If channel over 100, first press 100 key

5 Press STOP to stop recording.

One Touch Recording

(record in progress) Press REC repeatedly to set length as follows: 30 min. → 1 hr. → 1:30 → 2:00 → 3:00 → 4:00 → exit The VCR shuts off at the length set.

Record one station, watch another Press VCR/TV ("VCR" goes out on Multi Function Display),

 select channels at TV (recording continues). Select channels at VCR (in STOP or PAUSE mode)

Press VCR/TV ("VCR" lights up on Multi Function Display), → select channels at VCR.

hour machines are recommended.

Watching one channel and recording

· After VCR is in Still or Slow mode 3 minutes, it auto switches to Stop mode to protect the tape

3 Press STOP to stop tape.

Press REW or FF in Stop mode to Rewind or Fast Forward tape. ■ Press EJECT on remote.

or STOP/EJECT on VCR to eject tape.

another is not possible when using Cable **Box or DSS Receive** • After 5 minutes in Pause mode, VCR stops to protect the tape and the video heads.

(above) to set new programs

VCR Plust PROG. LIST Press ADD/DLT

program.

. If you are using a Cable Box, VCR Timer Programming Channel (Step 2 above) must be set to the Cable Box output channel and your Cable Box must be manually set to the desired channel. The Cable Box must be left on.

canceled. If "TIMER PROGRAMS WERE LOST DUE TO POWER INTERRUPTION" appears on-screen, please reenter the timer programs.

• When recording programs via DSS receiver, DSS receiver must be left on.

Location of Controls

Remote Control Buttons

EJECT -(Ejects tape) (Illuminates the remote POWER -(Turns VCR off/on (Enables TV functions) VCR (mode) DSS/CABLE mode (Enables VCR functions) (Enables DSS/CABLE functions (For TV or VCR mode) (For LINE or channel PLAY (Plays a tape)/ - PROGRAM/VCR+ FAST FORWARD/SEARCH (Displays Timer Program screer (Fast forwards tape/ forward NUMBER Kevs visual search) (Selects channel directly REWIND/SEARCH -ADD/DELETE (Rewinds tape/ reverse visual $\begin{pmatrix} 1 & 2 & 3 \end{pmatrix}$ (Adds or deletes a channel STOP (Stops tape) 4 5 6 - DISPLAY — ▲▼◀▶ Remote keys (Displays VCR status) PLAY, STOP, REW, and FI 7 8 9 function as ▲▼◀▶ - TAPE POSITION operation keys when menus (100) (0) ((Locates tape position) are displayed. -SEARCH/ENTER (Sets Search System /TV channel) ACTION-(Displays menu) COUNTER RESET-(Resets counter to zero) (Changes tape speed PAUSE/SLOW -(Displays still, frame by frame or slow motion picture) SAP/Hi-Fi -RECORD (Selects audio mode for play

Light Tower Universal Remote Control

seconds. Also, hold down a button to confirm the selected mode (mode button flashes) in the dark

FAST FORWARD/ SEARCH SEARCH VCR/TV selector Cassette Compartment

*Important: If a remote control button does not work when pressed,

Important notes when using DSS receiver

• When recording programs via an antenna or cable, DSS receiver must be turned off.

2) Press ▼ to display program screen. 2 VCR Plust PROG. LIST 1) Set record DATE,

press ▲▼ to select: $1\sim31=$ one time or DAILY= MON~ FRI or WEEKLY= same time each week and press >

2) Set remaining items, press ▲▼ to select and press ▶ to set START/ STOP times. CH(channel) or LINE input (p. 9 of "Advanced Operations" book), and tape speed (p. 3).

Press PROG/VCR+ button to end programming

To Enter More Program

| STOP 31:20P 02 SLP | Press ▲▼ to select and To Enter More Programs Then repeat step 2. Or, press PROG/VCR+ button to exit.

Review, Replace, or Clear Program

(Recording is not in progress) a 1) Press PROG/VCR+ button

2) Press ◀▶ to select LIST.

Timer Recording

1) Press PROG/VCR+* button.

Timer Recording

VCR PIUS+ PROG. LIST DT START STOP CH SPD 7 9:000 12:000 09 SP 0 9:000 12:000 09 SP desired program.

CANCEL :ADD/DLT SELECT :A ▼ SET:►

To Clear program.

d Press PROG/VCR+ button to end the

→8−9······ 31− 1 − 2····· 6−

SELECT▲ / ▼ Selection Order DAILY

press ▶ to set an unused program.

4 Press POWER off to set the timer Recording. ("TIMER" lights on Multi Function

Cancel a Timer Recording (Recording is in progress)

Press POWER and then STOP within 10 seconds to cancel the Timer Recording.

(The TIMER indicator goes out on Multi Function Display.)

C To Replace program...

VCR Plus+ PROG. LIST 1) Press ► to display \$UN 9:00A 12:00A 08 2) Repeat Step 2

• If a power interruption occurs while programming the timer, the timer program(s) may be

SPEED

COMMERCIAL SKIP ZERO SEARCH (Starts Commercial Skip)

(Records a program, etc.) CHANNEL UP/DOWN TRACKING/ V-LOCK (Selects channel/ reduce:

picture noise during Play and

LIGHT button: When pressed, available buttons light and selected mode button (TV, VCR, or DSS CABLE) flashes 5 seconds. If no button is pressed, light goes out in 5

EJECT button: Press to eject tape. EJECT is not available during record.

Front View of the VCR

VOLUME UP/DOWN

(Adjusts TV volume)

CHANNEL UP/ DOWN

TRACKING/ V-LOCK

STOP/EJECT

- 7 -

Sensor RECORD

press the VCR button on the remote and try the button again.

AUTO CLOCK SET COMPLETED

9/29/2002 SUN 2:20PM

SETTING : CH 10

a Press ACTION on remote to display CLOCK screen.

C Press ACTION to start clock, and go to

Auto Rewind

- 5 -

Insert a tape with a record tab (p. 3). 2 Press CH ▲▼ or NUMBER keys

to select the channel.

This video recorder, equipped with HQ (High Quality) system, is compatible with existing VHS equipment. Only use tapes with the WHS mark. Only tapes tested and inspected for use in 2, 4, 6, and 8

Auto Operation Functions Auto Plav

 Tape end > Rewind Fast Forward ■ Play Auto Eject (Repeat Play must be off) Play → Tape end → Rewind → Tape ejects if no record tab

Insert a tape → Power comes on → Play starts if no record tab (see p. 3).

*Important: If a remote control button does not work when pressed press the VCR button on the remote and try the button again.

Before Requesting Service

Check the following points once again if you are having trouble with your VCR. (BO : refers to "Basic Operations" Instruction book.) (AO: refers to "Advanced Operations" Instruction book.)

Correction Completely insert Power Plug into an AC outlet. No power.. Set POWER button to on. Make sure power source is active. **Recording & Playback** Check connections between VCR, external antenna, and TV program cannot be recorded.. Check connections selection. (BO p. 4, AO p. 3) Make sure your antenna system (CABLE or TV) is correctly set. (Channels [AO p. 12]) Make sure cassette record tab is intact. (BO p. 3) Confirm that clock is set to current time and date. Timer recording cannot be Make sure Cable/DSS box (if used) is left on and tuned to performed.. channel to be recorded Set recording start/stop times correctly. (BO p. 6) Make sure VCR POWER button is pressed off. (BO p. 6) Timer recording may not be performed or continued if a power interruption occurs before or during a Timer Recording, even after power is restored Select channel 3 or 4 on TV to match VCR output channel There is no playback picture, or the (3 or 4) (BO p. 4) or select LINE. playback picture is noisy or contains Set VCR/TV selector to "VCR." streaks.. Adjust TRACKING control in either direction. (BO p. 3) Try Head Cleaning. (BO p. 3) Special effects playback, picture may Set TV's Vertical Hold Control to MANUAL, then adjust. contain some vertical jitter when using a TV with an Automatic Vertical Hold Control... VCR cannot be controlled.. Make sure VCR power is on. Check Remote batteries Make sure VCR LOCK is set to off. (AO p. 10) Make sure Remote is in proper mode. (AO p. 2) Make sure Timer Record is not in progress. **Remote Control** Make sure VCR power is on. VCR cannot be remote controlled... Make sure Remote is in VCR mode. Aim Remote Control directly at remote sensor on VCR Avoid any object blocking signal path. Check Remote batteries. (BO p. 3) Make sure VCR LOCK is set to off. (AO p. 10) Exposing VCR remote sensor to direct fluorescent or outdoor light may cause signal interference. ACTION and PROG/VCR+ buttons do Check connections between VCR, external antenna, and not respond... Press VCR button for VCR mode. (AO p. 2) Check Remote batteries. (BO p. 3) Miscellaneous Correction Make sure TV power is on. Programs cannot be viewed on TV... Make sure TV is set to output of VCR. Check connections between VCR, external antenna, and Set VCR/TV selector to "TV." (BO p. 5) Make sure proper signal source is selected. Insert the cassette with window side up; record tab facing Video cassette cannot be inserted. Check if a tape is already in the unit. Completely insert Power Plug into an AC outlet. Video cassette cannot be removed Video cassette eiects when a Make sure cassette record tab is intact. (BO p. 3) recording is started or the power is turned off for timer recording...

If you cannot resolve the problem, please call the Customer Call Center for product assistance at 1-800-211-PANA (7262). To locate an authorized servicenter, please call toll free 1-800-211-PANA (7262).

To enable Quick play mechanism, the cylinder will rotate

for about 3 minutes. This reduces response time from

Stop to Play mode and from Play to Rewind Search

or send e-mail to: consumerproducts@panasonic.com Panasonic Consumer Electronics Company,

In Stop mode, the motor (CYLINDER)

continues to rotate.

Division of Matsushita Electric Corporation of America One Panasonic Way Secaucus, New Jersey 07094

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Copying Your Tapes (Dubbing)

Connection

(Rear connection shown.) VCR IN FROM ANT OUT TO TV AUDIO OUT AUDIO IN / VIDEO IN VHF/UHF Front of VCR VIDEO IN 2 L-AUDIO IN2-R

Connect VIDEO OUT jack on Playing VCR to VIDEO IN jack on Recording VCR. To monitor the dubbing, also connect a TV as shown.

2 Connect AUDIO L/R OUT jacks on Playing VCR to AUDIO L/R IN jacks on Recording VCR.

In place of a Playing VCR, you can use other equipment, such as a Camcorder Simply connect the unit's Audio/Video outputs to the Recording VCR.

Playing (Source) VCR

Recording (Editing) VCR

0

are also provided)

 \circ

(Front Audio L/R Video IN jacks

Insert pre-recorded tape. Insert blank tape with record tab. Press INPUT* to set VCR Input mode to LINE1 for Video Input (Rear) or to LINE2 for Video

Input (Front). (See "Selecting the Input Mode" 3 Press PLAY, then PAUSE/SLOW Press REC, then PAUSE/SLOW

mmediately to enter PLAY/PAUSE mode. immediately to enter REC/PAUSE mode. The operation of steps 4 and 5 must be done on both playing and recording VCRs at the same time.

Press PLAY to start dubbing Press PAUSE/SLOW to start dubbing. Playing VCR starts playback.

Recording VCR starts recording.

S1201-0

5 Press STOP to stop dubbing

■ To Monitor Dubbing on Your TV

1 Turn your TV on and tune to the Recording VCR channel (CH3 or CH4).

2 Set the VCR/ TV Selector on the Recording VCR to "VCR."

 Dubbing tapes protected with Copy Guard will have poor quality results. ■ Selecting the Input Mode

Press STOP to stop dubbing.

Method 1 Press INPUT repeatedly Channel Number ↔ LINE1 ↔ LINE2 Method 2: Press CH ▲ / ▼.

Display will change as below. ----1----2----3------ (CABLE) (TV) LINE2 → LINE1 → 125 or 69 ←

• "L1" or "L2" lights on Multi-Function Display (about 4 sec.) when LINE1 or LINE2 is

• LINE1: For rear audio/video connection. LINE2: For front audio/video connection.

Caution: Unauthorized exchanging and/or copying of copyrighted recordings may be

- 9 -

Special VCR Features

Tape Position Display Feature Weak Signal Display ON/OFF Feature

Press TAPE POSITION

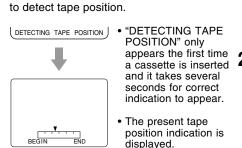
2 Press TAPE POSITION

to return to normal screen

When set to "ON." picture is displayed

To find out the present tape position.

Tape position is displayed for VHS-C regardless of signal strength. Cassettes type, tapes under 30 minutes, and some other tapes, but the position is not Press ACTION to display menu.



Press ◀ ▶ to select and display CHANNEL Press ▲▼ to select WEAK SIGNAL DISPLAY, and press to set ON or OFF. • ON: Picture is displayed despite signal

VCR Lock Feature

R LOCK ACTIVATED

condition an may have poor quality. OFF: Screen turns solid blue when signal is weak or non-existent Selecting ON has no effect on connected

equipment with blue back feature.

When set to ON, all operations except for timer

record and tape eject are prohibited. Useful for

To turn on, hold down

(Please ignore the NO

To turn off, repeat above.

CASSETTE warning.)

mode with no tape

inserted for 7 sec.

REC on the VCR in Stop

Press ACTION to return to normal screen.

If Multi-brand feature is used (page 2), and this

Remote Warning ON/OFF Feature

feature is set to on, a warning appears whenever an invalid key is pressed in TV, DSS or Cable mode.

Press ACTION to display menu.

2 VCR CLOCK! CHANNEL REPORT PLAY : OFF REMOTE WARNING ON REMOTE WARNING

and press ▶ to set ON • If "OFF," remote

warning will not appear if invalid key is pressed

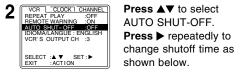
3 Press ACTION to return to normal screen.

Auto Shut-Off Feature

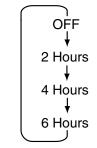
· VCR Lock cancels in 24 hours if clock is set.

1 Press ACTION to display menu

The power shuts off at a preset time.







3 Press ACTION to return to normal screen.

• The shut-off countdown will not function during Play or Record.

*Important: If a remote control button does not work when pressed press the VCR button on the remote and try the button again.

- 10 -

On-Screen Displays (OSD)

On-Screen Displays (OSD)

Function & Channel Displays

When a function button is pressed, e.g. PLAY, or vou change channels. a 5 second display

No Video Signal Indications When blank tape is detected during play, or the current channel has no signal (with Weak Signal Display feature (p. 10) set to

OFF), the TV screen will turn solid blue.

Blank Tape/

VCR Status & Clock Displays

To display or remove Current Time overlay at right, → press DISPLAY*. Rec Time Remaining_ (OTR mode only. See p. 5 of Basic Operations book.) Broadcast Audio Being Received

Warning and Instruction Displays

OSD

These displays will alert you to a missed operation or provide further instructions

PLEASE SET CLOCK BY PRESSING ACTION KEY	If you attempt to set or review a Timer Recording and the Clock is not set	See page 6 of Basic Operations book	COUPURE AUTO : NON LANGUAGEDIOMA FRANÇAIS CA SORTIE: 3 SEL. A PREGLER: OUITTER: ACTION FOr French CH AUTO SET F
TURN VCR OFF FOR TIMER RECORDING	After a Timer Program has been set	See page 6 of Basic Operations book	3) Press ACTION to exit. • After Chan Set is finis Clock Set performed.
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or VCR, and a cassette is inserted with no record tab	See page 3 of Basic Operations book	TVOR's Output Observal
NO CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or VCR without a cassette inserted	See page 5 of Basic Operations book	VCR's Output Channel 1) Press ▲▼ to select "VCR'S OUTPUT CH." VCR CLOCK! CHANNEL REPEAT PLAY REMOTE WARNING : OPF IDIOMALANGUE: ENGLISH VOR'S OUTPUT CH: 32 PROTECTION REMOTE WARNING : OPF IDIOMALANGUE: ENGLISH VOR'S OUTPUT CH: 32
TO CANCEL TIMER REC PRESS POWER THEN STOP KEY	If you press POWER or STOP during a Timer Recording (visible in VCR mode only)	See page 6 of Basic Operations book	SELECT :A ▼ SET: ► EXIT :ACTION 2) Press ►. VCR CLOCK! CHANNEL IF YOU PRESS ACTION KEY, VCR 'S OUTPUT CH SWITCHES TO CH 4.
VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL END :PLAY	If head cleaning becomes necessary while playing back a tape	See page 3 of Basic Operations book	3) Press ACTION. VCR CLOCK! CHANNEL PLEASE TUNE YOUR TV TO CH 4.
VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while the VCR is in VCR Lock mode	See page 10	After 3 seconds VCR L CLOCK L CHANNEL REPEAT PLAY SOFF REMOTE WARNING SON
REMOTE CONTROL IS SET	If you press an invalid key on the	0	AUTO SHUT-OFF OFF IDIOMALANGUE: ENGLISH VCR'S OUTRUT CH 2 SELECT: A ▼ SET: ►

Caution

*Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again

remote while in TV mode..

Panasonic



Video Cassette Recorder Omnivision WAS **Operating Instructions**

(Advanced Operations) For Basic operations, see the separate

"Basic Operations" instruction book.

Model No. PV-V4602

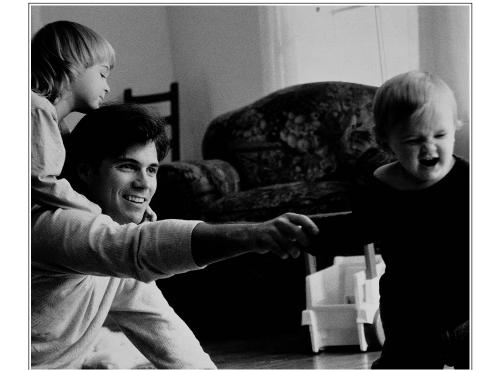


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As an ENERGY STAR® Partner, Matsushita Electric Corporation of America has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.

Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual.

LSQT0535A

TO TV MODE

USE VCR: VCR KEY

- 11 -

VCR CLOCK CHANNEL REPEAT PLAY :OFF REMOTE WARNING :ON SELECT :▲ ▼ SET:► EXIT :ACTION To Make Corrections,

repeat steps 1) ~ 3).

Keep these time changes in mind when

- 12 -

Reset Language, Channels, Clock, VCR's Output Channel

Clock

CLOCK.

1) Press ◀ ▶ to select

MANUAL TIME ZONE ADJUST :

2) Press ▲▼ to select

SELECT : A ▼ SET: ►
EXIT : ACTION

appears only when

auto clock is set.)

("TIME ZONE ADJUST"

VCR CLOCK CHANNEL

9/29/2002 SUN \2:--P

SELECT :▲ ▼ SET:► EXIT :ACTION

to select and set

DST (Daylight

Saving Time).

4) Press ACTION to

To add channel:

press ADD/DLT.

To delete channel:

keys and press ADD/DLT.

exit this mode

start the Clock and

Add or Delete a Channel

Select channel with NUMBER keys and

CHANNEL 08 ADDED

Select channel with CH ▲/▼ or NUMBER

CHANNEL 08 DELETED

the date, time, and

3) **Press ▲▼** and **⋖▶**

"MANUAL" and press

. (For Auto Clock Set

select "AUTO CLOCK SET.")

Time Zone

(Only when Auto Clock

1) Press ◀ ▶ to select

VCR CLOCK CHANNEL AUTO CLOCK SET

IME ZONE ADJUST : (

2) Press ▲▼ to select

VCR CLOCK CHANNEL

ECT : A ▼ SET : ►

hour(s) as necessary

ADJUST" returns to

"0" if clock is set

and **press** ▶ to

subtract or add

3) Press ACTION.

"TIME ZONE

TIME ZONE

ADJUST'

Adiust

is set.)

CLOCK.

PVCR CLOCK CHANNEL Press ACTION

1) Press ▲▼ to select 1) Press ◀▶ to select

IDIOMA/LANGUE : ENGI VCR' S OUTPUT CH :3

SELECT :▲▼ ◀ ▶ EXIT :ACTION

Language

language item.

Channel

— Counter

(See p. 3 of Basic

Operations book.)

Page

See pages 2, 10

VCR CLOCK CHANNEL

2) **Press** ► repeatedly.

ELECT : ▲ ▼ SET : ►

For English

VCR RELOJ CANAL

For Spanish

to display MENU

Channels

CHANNEL

SELECT : A ▼ ◀ ► EXIT : ACTION

2) Press ▲▼ to select

your antenna system

"ANTENNA." then

("TV" or "CABLE.")

press ▶ to set

WEAK SIGNAL DISPLAY CABLE/DSS BOX SET U VCR Plus+ CH SET UP

ELECT :▲▼ SET:►

B) Press ▲▼ to select

If you use Cable

Box, set it to the

VCR CLOCK CHANNEL

CH AUTO SET PROCEEDIN

After Channel Auto

Clock Set will be

Set is finished, Auto

CANCEL : STOP

PBS channel in your

press .

time zone.

Saving Time, select DST:OFF.

DST (Daylight Saving Time)

VCR auto adjusts clock for DST.

Spring (First Sunday in April)

DST:ON → Sets clock ahead one hour

Autumn (Last Sunday in October)

DST:ON - Turns clock back one hour.

If your area does not observe Daylight

programming VCR for timer recordings.

or assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

- → hold down TV button. → enter code with NUMBER kevs
- Setup for Cable or DSS control.
- → hold down DSS/CABLE button.
- enter code with number kevs
- If code number is 100 or greater, ightharpoonup press 100 key, then other digits. E.g., press 100 - 0 - 2 for 102.
- **3** Confirm code entry,
- → press POWER to turn your TV on or off.
- See table below for controllable functions in each mode. Repeat setup after remote battery replacement
- Remote will not control every TV, cable box, or DSS made by the manufacturer listed. If you get no response, your particular unit cannot be controlled. There are NO additional codes for the products listed. If your product is not listed, then the remote is not compatible with that product

Using Multi-Brand Control

After remote is set up, you can select VCR, TV, or DSS/CABLE for the desired function. Press VCR, or TV, or DSS/CABLE on the remote. (Table below shows available unit buttons for each mode.)

Mode Unit	VCR	TV	CABLE/ DSS
VCR	All	VOL UP/DOWN	
TV	VCR/TV, PLAY, STOP, EJECT, SAP/ Hi-Fi, DISPLAY, FF, REW, PAUSE/SLOW, REC, SPEED, CM/ZERO, COUNTER RESET, TAPE POSITION	POWER, INPUT, number keys, ENTER, CH UP/ DOWN, VOL UP/DOWN	
CABLE/ DSS		VOL UP/DOWN	POWER, ENTER, NUMBER keys (except 100key), CH UP/ DOWN
Notes • Not all functions listed may be controllable.			

In TV or DSS/CABLE mode, it may be necessary to press ENTER after pressing

NUMBER keys for channel selection. TV Brand Code Numbers

Panasonic	Sony 08	JVC
Zenith	Sanyo 10	

Oalda Barr Brand Oada Norraharra	
Cable Box Brand Code Numbers	
Archer 05, 06, 01, 44, 63, 91, 126	Quest 05, 06
Cabletenna	Radio Shack 51, 44, 59, 75, 126
Cableview 63, 44, 42, 30, 52, 04, 124, 126	RCA
Century	Realistic 51, 44, 59, 75, 126
Citizen 63, 44, 42, 30, 52, 04, 124, 126	Recoton 51, 44, 59, 75, 126
Curtis	Regal 14, 15, 28, 41, 102, 103, 104, 108, 130
Diamond 01, 44, 63, 91, 126	Regency 28, 130
Drake 67	Rembrandt 01, 32, 39, 42, 44, 63, 126
Drake	Salora 68
Eastern	Samsung 05, 32, 40, 42, 06
	Scientific Atlanta 08, 09, 61, 53, 87
Gemini 04, 124	Sheritech
General Electric 57, 01	Signal 26, 112
General Instruments 01, 02, 03, 04, 34, 55, 83, 106,	SL Marx 32, 40, 42, 06, 43, 44, 52, 63, 126
65, 67, 68, 115, 117, 118, 124, 91	Sprucer
Hamlin 14, 15, 28, 41, 102, 103, 104, 108, 130	Standard Components 32, 39, 42, 44, 126
Hitachi	Stargate 32, 40, 63, 44, 42, 30, 52, 04, 06, 124, 126
Jasco	Sylvania
Jerrold 01, 02, 03, 04, 34, 55, 83, 106,	Teknika
65, 67, 68, 115, 117, 118, 124, 91	Telecaption
Macom	
Magnavox	Texscan
Movietime	Toshiba
NEC 38, 40, 32	Uniden Satelite
NOVAVISION	Unika
NSC 38, 40, 32	Universal
Oak	Videoway
Oak Sigma	Vid Tech 64
Panasonic	Vidtek 64
Philips	Viewstar 13, 22, 58, 62, 20, 40, 26, 107
	Zenith
Pioneer	, , ,

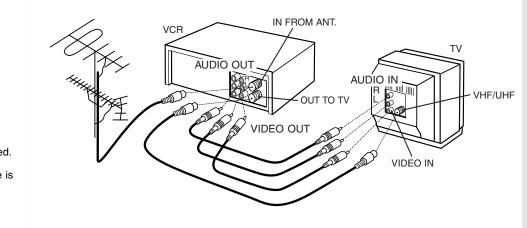
DSS Brand Code Numbers RCA Hitachi/ Hughes Magnavox/ Uniden 1 Magnavox/ Uniden 2 Sony.

Due to changes in infra-red commands used by manufacturers, some brands have several codes. If your unit does not respond to the first code, please try the next one Some TV, Cable Box and DSS Box brands require you to turn on the power manually.

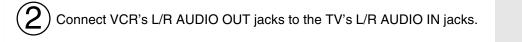
Advanced Connections

Audio/Video connection

If your TV has AUDIO IN and VIDEO IN terminals, you can connect your VCR to them to receive higher quality picture and sound.



(1) Connect the VCR's VIDEO OUT jack to the TV's VIDEO IN jack.



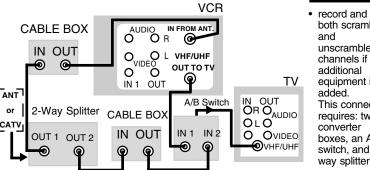
Set the VIDEO/TV selector of your TV (Monitor/Receiver) to "VIDEO.

■ With a Cable Box (VCR → Cable Box) You Cannot You Can scrambled (including scrambled) CABLE BOX

Control to select channels without using Multi-brand control feature

- 3 -

■ Connect With Two Cable Boxes



You Cannot

channels

You Can • record and view • view channel both scrambled other than and unscrambled channels if additional equipment is This connection requires: two converter boxes, an A/B

Remote

selected fo any type of recording do a Timer recording of a channel unless vou select if at the cable switch, and a 2-

the one

3 Do a recording. Instruction book.

1 Press SAP/ Hi-Fi to display audio mode. 1 Start playback.

(Display disappears after 5 seconds.)

desired mode. Refer to "Receivable Broadcast Types" above.

• Arrow indicates selection

See p. 5 of "Basic Operations"

Audio Mode for Playback

See p. 5 of "Basic Operations" Instruction book.

> **2** Press SAP/ Hi-Fi to display audio mode. (Display disappears after 5 seconds.)



Arrow indicates

selection.

Press SAP/ Hi-Fi repeatedly to select desired mode. Select "HIFI(L/R)" or "HIFI(I)" or

"HIFI(R)" to listen to stereo recordinas in stereo sound. Select "NORMAL for monaural sound

• Only tapes recorded in Hi-Fi stereo will playback with true stereo sound. Standard stereo tapes will playback in monaural sound.

 To listen to Hi-Fi stereo playback, the VCR AUDIO (L/R) jacks must be connected to a stereo TV or an external stereo amp and speakers. (See top of this page.)

• If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio. · Hi-Fi and normal audio playback volume level may differ.

*Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again.

MTS Broadcast/VHS Hi-Fi Stereo System **Tape Operation**

Search System For each recording, an invisible index mark is placed on the tape. A program index and

information are also included for timer recordings. These marks are used to access or scan recordings

Press SEARCH to

or back 1 index. **press**

screen left is displaved

FF or REW on the

remote or VCR while

· To cancel, press

STOP or PLAY.

search.

(10 sec.).

To go to rec. 2 from rec. 4, enter 3 and press REW.

To go to rec. 6 from rec. 2, enter 4 and press FF

1 2 3 4 5 6 7

NOTE:

indicates start points of each recording.

• If Index Search is started very close to an

index mark, that index mark may not be

counted in the search.

Repeat Play

1 2 3 4 5 6 7

To Calculate Index Number

ndex Search Equipped with dbx®-TV Noise SEARCH INDEX PROGRAM END ENTER INDEX NUMBER :1

Example 1:

Example 2:

Note

Reduction for true MTS display SEARCH in Stor reproduction. dbx®-TV Noise or Play mode, and then Reduction is required for good press NUMBER keys to stereo separation and audio select recording fidelity. dbx[®] is a registered trademark, and is licensed by To calculate number dbx® Technology Licensing. see below Press FF or REW or the remote to start

The following are possible audio broadcast types and on-screen displays

Make the Audio/Video Connection as shown on page 3

The signal being received is indicated with an "fk" mark while the selected audio mode is indicated with an arrow To display the broadcast signal being received,

You can use a TV connected to Stereo amp and speakers instead of a Stereo TV.

→ press DISPLAY*.

eceivable Broadcast Types

MTS Stereo and SAP broadcast Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are being received simultaneously.

MTS Stereo broadcast

Normal monaural sound broadcast.

Audio Mode for Recording

Select STEREO or SAP audio mode.

Multi-channel Television Sound Stereo broadcast. Select STEREO audio mode.

• If stereo broadcast is weak and display flickers, select MONO audio mode for possibly better results.

SAP broadcast Secondary Audio Program (sub language) broadcast.

Connection

Select SAP audio mode for the sub language.

MONO broadcast

STOP 12:00AM CH 02 0:00:00

(¢STEREO ◀

©STEREO ◀

1 Press ACTION to display menu.

R CLOCK CHANNEL EAT PLAY :OFF IOTE WARNING :ON O SHUT- OFF :OFF MA/LANGUE : ENGLISH 'S OUTPUT CH :3	Press ▲▼ to select REPEAT PLAY and press ► to set ON or OFF.
ECT : A ▼ SET: ►	ON: Play repeats at tape
F : ACTION	or if unrecorded port

ats at tape end over 30 sec. is detected.

3 Press ACTION to return to normal screen.

2nd Press → 2 min Skip

3rd Press → 3 min Skip

Commercial Skip

VCR fast forwards (skips) over 1~3 minutes of recorded tape.

Press CM/ZERO in Play mode.

Press CM/ZERO repeatedly to change skip time as shown below.

PLAY

• No indication appears.



- 5 -

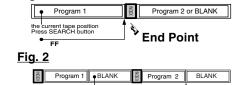
Program End Search

Locates end point of recording for continuity. 1 Press SEARCH twice to display

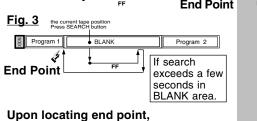
Press FF on the remote to start PROGRAM END SEARCH. To cancel, press STOP or PLAY.

SEARCH in Stop or Play mode.

Examples of Program End Search. Play begins at search end. To search forward



End Point



→ search continues 7 sec. past end point. → tape rewinds to 10 sec. before end point,

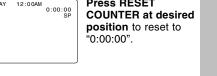
→ tape plays to end point and stops. Note

• If Program End Search is started very close to an index mark, that mark may be skipped

Zero Search

Set to playback a recording over and over.

1 Press DISPLAY during play to display



Stop mode to start ZERO SEARCH. • Unit will go into FF or REW mode and stop at the last poin the Counter was set

in initial setup (page 4 of "Basic Operations" book) will be replaced by

Make each entry within 1 minute or VCR will

they will stay in memory, even in the case of a power failure.

timer recording will have priority.

Timer Recording Using VCR Plus+® System

VCR Plus+ System is ...
This feature sets most items of a Timer Recording when you enter a PlusCode programming number found in TV GUIDE and selected newspaper TV listings.

Important Note

"Connections/Initial Setup (Ready to Play)" on page 4 of "Basic Operations" book must be completed before "Auto VCR Plus+ System Channel Setup" can be done. If any part of setup is incomplete, a warning screen appears.

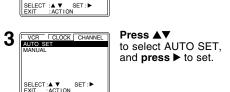
Auto VCR Plus+ System Channel Setup (Part 1)

For [VCR → TV] or [VCR → cable box → TV] Before you perform the following steps, you connection only In order for VCB to read PlusCode numbers. some set up is required. Guide channel numbers

are assigned to each local broadcast and cable • left VCR off overnight, and turned it back on station. Because this number sometimes differs from channel TV receives station on, it is necessary to program the VCR with local channel information. To receive VCR Plus+

channels automatically, perform the steps below. Or, see "Manual VCR Plus+ System Channel Setup" section on page 7.





to select VCR Plus+ CH

to enter Zip Code and

Press ▶ or ACTION to

enter each number

SET UP, and press ▶ to

4 VCR CLOCK CHANNEL Press ▲▼ ◀▶

To quickly return to a specified tape location.

Press RESET PLAY 12:00AM

Continue to record, playback, etc

4 Press Stop



5 VCR CLOCK CHANNEL Press ▲▼ VERY MONDAY NIGHT

Press CM/ZERO in

to 0:00:00.

Notes

· When Auto Set is performed, channels set automatically downloaded data.

leave this mode Once local channels have been programmed,

during Auto VCR Plus+ System Setup, the

• If the start time for a timer recording comes up

Timer Recording Using VCR Plus+® System

To use VCR Plus+ system, clock and channels must be set (p. 4 of "Basic Operations" book). Channel Setup.... Broadcast/ cable stations are assigned a VCR Plus+ (GUIDE CH) number. See the Channel isting (directory) page of TV GUIDE, etc. In the Channel Setup below, you will be entering you

cal channel number (RECEIVE CH) for each GUIDE CH number. Example: if NBC's assigned GUIDE CH were 05, and your TV received NBC on channel 04, you would enter 04 across from GUIDE CH 05 in step 4 of "Manual VCR Plus+ System"

Manual VCR Plus+ System **VCR Plus+ System Programming** Channel Setup

to select VCR Plus+ CH

SET UP, and **press** ▶ to

to select MANUAL, and

enter number, press

Repeat step 4 until list

station is not received

Leave line blank if

or if GUIDE and

to set. **press** ▲▼ to

scroll up/down.

is complete.

press ▶ to set.

VCR CLOCK CHANNEL Press ► to move cursor

BUIDE CH RECEIVE CH to right, press ▲▼ to

For [VCR → TV] or [VCR → cable box → TV] connection only. You'll need a local TV channel listing (e.g. TV GUIDE) which includes the assigned VCR Plus+



vcr clock channel Press AV

VCR Plus+ CH SET UP

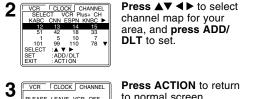
CLEAR :ADD/DLT SELECT:▲▼ SET:►

VCR CLOCK CHANNEL

GUIDE CH RECEIVE CH

To Make Corrections

2 VCR CLOCK CHANNEL Press ▲▼ Press ACTION to display SFL FC VCR Plus+ CH. Continue with step 2



Auto VCR Plus+ System Channel

completed "Auto VCR Plus+ System

If channel updating If VCR could not

was successful... distinguish channel map...

VCR CLOCK CHANNE

PLEASE SELECT VCR Plus+ CHANNEL

Channel Setup (Part 1)" on left.

after 9:00 AM the next day.

VCR CLOCK CHANNEL

END : ACTION

Press ACTION

to exit this mode

Setup (Part 2)

should have

 Make sure to leave VCR off (overnight) Channel map will be updated (overnight)

COMPLETED" appears on screen

And then, press ACTION to exit. Repeat these steps as necessary.

If it was successful, "VCR Plus+ CH SET

If Auto Setup fails, do "Manual VCR to select When to Update, and press ▶ to Plus+ System Channel Setup" on page 7.

Press ACTION to return EASE LEAVE VCB OFF to normal screen o Change or Update Auto VCR Make sure to leave VCR off (overnight) Plus+ System Channel Setup

(E.g. you selected wrong channel map or zip code.) a Do "Auto VCR Plus+ System Channel Setup



perform steps 4~6 in the "Auto VCR Plus+ System Channel Setup (Part 1)" section on above left. If you selected SELECT VCR Plus+ CH,

System Channel Setup (Part 2)" section on

Press PROG/VCR+ button to display PROGRAM



ITER PLUSCODE NUMBER | to enter PlusCode

PROG/VCR+ button USING 0-9 KEYS BACKSPACE :◀ To Make Corrections, press **◄** repeatedly to delete number, ther repeat step 3.

number and press

• If the PlusCode number entered begins with "0," skip to step 5. Display in step 4 VCR Plus+ PROG. LIST Press ▲▼ to select

ONCE, DAILY



2:20P 3:20P 02 press ► to set. record speed and Press PROG/VCR+ button to end program

CR Plust PROG. LIST Press PROG/VCR+ 13 2:00P 3:20P 02 SLP button again to exit.

7 Press POWER off to set timer Recording.

Do normal Timer Record if...

change, or ADD/DLT to erase number

5 Press ACTION twice to end setup.

See page 6 of "Basic Operations" book to: • cancel a timer recording in progress.

 review, replace, or clear program contents Important for DSS/Cable Box Users

• Do not overlap program times.

• Obtain unlisted PlusCode numbers by calling 1 - 900 - 454 - 7587. Call costs about \$.95 per

*Important: If a remote control button does not work when pressed, press the VCR button on the remote and try the button again

- 7 -

• PlusCode number is not listed for program. • program (e.g. sports event) may run over set stop time

(Part 1)" steps 1~3 on above left.

Press ▲▼ to select UPDATE VCR Plus+ CH

If you selected UPDATE VCR Plus+ CH,

perform steps 2~3 in the "Auto VCR Plus+

or SELECT VCR Plus+ CH, then press ▶.

channel setup may be lost. Please do channel setup again.

RECEIVE CHs are the to delete the program. press ▲▼ and ▶ to move to error, then ▲▼ to

"TIMER" lights on Multi Function Display.)

• When recording via a cable box, leave box on and tuned to channel to be recorded

• Make each entry within 1 minute or VCR exits setup.

• See "Important for DSS/Cable Box Users" above.

Press ADD/DLT

• Once VCR Plus+ channel setup is done, channels stay in memory. If there's a power outage,

• When recording via DSS, the receiver must be left on. When recording via cable or antenna, DSS